In the specification:

At page 1, delete the first paragraph and substitute therefor:

This application is continuation of U.S. Serial No. 09/517,945, filed March 3, 2000, now U.S. Patent 6,355,431, issued March 12, 2002, which claims benefit of U.S. Provisional Application No. 60/160,927, filed October 22, 1999, now abandoned, U.S. Provisional Application No. 60/161,148, filed October 22, 1999, now abandoned, U.S. Provisional Application No. 60/160,917, filed October 22, 1999, now abandoned, U.S. Provisional Application No. 60/135,051, filed May 20, 1999, U.S. Provisional Application No. 60/135,053, filed May 20, 1999, U.S. Provisional Application No. 60/135,123, filed May 20, 1999, and U.S. Provisional Application 60/130,089, filed April 20, 1999. ~~The present invention is a continuation in part of U.S.S.N. 60/161,148, filed October 22, 1999, which is a continuation in part of U.S.S.N. 60/135,051, filed May 20, 1999, and a continuation in part of U.S.S.N. 60/160,027, filed October 22, 1999, which is a continuation in part of U.S.S.N. 60/130,089, filed April 20, 1999, all of which are pending.~~

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At page 7, delete the ~~third~~ fourth full paragraph, and substitute therefor:

Figure 4 depicts a preferred embodiment of the invasive cleavage reaction. In this embodiment, the

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signaling probe **65** comprises two portions, a detection sequence **67** and a signaling portion **66**. A second distinct probe 70 for invasive cleavage is also known as an invade probe. The signaling portion can serve as an adapter sequence. In addition, the signaling portion generally comprises the label **55**, although as will be appreciated by those in the art, the label may be on the detection sequence as well. In addition, for optional removal of the uncleaved probes, a capture tag **60** may also be used. Upon addition of the enzyme, the structure is cleaved, releasing the signaling portion **66**. The reaction can be repeated and then the signaling portion is added to the array as above.

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At page 7, delete the ~~fifth~~ sixth full paragraph bridging pages 7 and 8, and substitute therefor:

Figure 6 depicts OLA/RCA amplification using a single "padlock probe" **57**. Figure 6A shows the **[[The]]** padlock probe **[[is]]** hybridized with a target sequence **25**. When the probe **57** is complementary to the target sequence **26**, ligation of the probe termini occurs forming a circular probe **28**. When the probe **57** is not complementary to the target sequence **27**, ligation does not occur. Addition of polymerase and nucleotides to the circular probe results amplification of the probe **58**. Figure 6B shows cleavage **[[Cleavage]]** of the amplification probe **58** yields fragments **59** that hybridize with an identifier probe **21** immoblized on a microsphere **10**.

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At page 8, delete the first full paragraph, and substitute therefor:

Figure 7 depicts an alternative method of OLA/RCA. Figure 7A-C shows an **[[An]]** immobilized first OLA primer **45** is hybridized with a target sequence **25** and a second OLA primer **50**. Following the addition of ligase, the first and second OLA primers are ligated to form a ligated oligonucleotide **56**. Figure 7D shows that following **[[Following]]** denaturation to remove the target nucleic acid, the immobilized ligated oligonucleotide is distributed on an array. Figure 7E-F shows an **[[An]]** RCA probe **57** and polymerase **[[are]]** added to the array resulting in amplification of the circular RCA probe **58**.

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